

Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the Application.

Listing of Claims:

1. (Withdrawn) An inflatable structure comprising a plurality of inflatable chambers and a flexible material secured to the chambers wherein a primary inflatable chamber communicates by way of air pathway connections to at least one secondary inflatable chamber.
2. (Withdrawn) The inflatable structure of Claim 1, wherein the air pathway connection further comprises a valve mechanism capable of restricting air flow from the secondary inflatable chamber to the primary inflatable chamber.
3. (Withdrawn) The inflatable structure of Claim 2, wherein the valve mechanism can be selectively operated to air to flow from the secondary inflatable chamber to the primary inflatable chamber.
4. (Withdrawn) The inflatable structure of Claim 3, wherein the valve mechanism comprises a clamp.
5. (Withdrawn) The inflatable structure of Claim 3, wherein the valve mechanism is selected from the group consisting of a gate valve, globe valve, ball valve, butterfly valve and check valve.
6. (Withdrawn) The inflatable structure of Claim 1, wherein the flexible material, the primary air chamber and the secondary air chamber form an aerodynamic wing capable of generating lifting force.
7. (Withdrawn) The inflatable structure of Claim 6, wherein the air pathway connection comprises a flexible tube having first and second ends wherein the first end is secured

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to a nipple in the primary air chamber and the second end is secured to a nipple in the secondary air chamber.

8. (Withdrawn) The inflatable structure of Claim 1, wherein the air pathway connection is configured to be an internal portion of a framework comprising the primary inflatable chamber and the secondary inflatable chamber.

9. (Currently Amended) An aerodynamic wing comprising an inflatable leading edge strut, at least one inflatable rib strut, an air pathway connection and a valve mechanism, wherein the air pathway connection allows air flow between the leading edge strut and a rib strut and wherein the valve mechanism has a first configuration that permits air flow from the leading edge strut to a rib strut and a second configuration that prevents air flow from the rib strut to the leading edge strut, such that the second configuration prevents air flow from the rib strut to the leading edge strut when pressure in the rib strut is greater than pressure in the leading edge strut.

10. (Canceled) The aerodynamic wing of Claim 9, wherein the air pathway connection further comprises a valve mechanism capable of selectively restricting air flow between the rib strut and the leading edge strut.

11. (Currently Amended) The aerodynamic wing of Claim ~~[[10]]~~ 9, wherein the valve mechanism comprises a clamp and the air pathway connection comprises a flexible tube.

12. (Withdrawn) A method for preparing a leading edge inflatable kite for use comprising the steps of:

- a) providing a kite having an inflatable leading edge strut, at least one inflatable rib strut and an air pathway connection that allow air to flow from the leading edge strut to the rib strut;
- b) supplying air to the leading edge strut;
- c) allowing air to travel from the leading edge into the rib strut; and

c) operating a valve mechanism on the air pathway connection to restrict the flow of air from the rib strut to the leading edge strut.

13. (Withdrawn) The method of Claim 12, further comprising the steps deflating the kite by opening a valve in the leading edge and operating the valve mechanism on the air pathway connection to allow the flow of air from the rib strut to the leading edge strut.

14. (Canceled) The aerodynamic wing of Claim 9, wherein the second configuration of the valve mechanism prevents air from traveling from the rib strut to the leading edge strut when the leading strut loses air pressure.

15. (Currently Amended) The aerodynamic wing of Claim ~~[[14]]~~ 9, wherein the second configuration of the valve mechanism prevents air from traveling from the leading edge strut to the rib strut when the rib strut loses air pressure.

16. (Withdrawn) A method for using an aerodynamic wing comprising the steps of:
a) providing an aerodynamic wing comprising an inflatable leading edge strut, at least one inflatable rib strut, an air pathway connection and a valve mechanism, wherein the air pathway connection allows air flow between the leading edge strut and a rib strut and wherein the valve mechanism has a first configuration that permits air flow from the leading edge strut to a rib strut and a second configuration that prevents air flow from the rib strut to the leading edge strut;

b) supplying air to the leading edge strut so that air travels from the leading edge into the rib strut; and

c) flying the aerodynamic wing using a plurality of control lines, wherein the valve mechanism prevents air from traveling from the rib strut to the leading edge strut.

17. (Withdrawn) The method of Claim 16, wherein the valve mechanism comprises a clamp and further comprising the step of manually operating the clamp after supplying air to the

leading edge strut and before flying the aerodynamic wing, wherein manually operating the clamp prevents air from traveling from the rib strut to the leading edge strut.

18. (Withdrawn) The method of Claim 17, wherein manually operating the clamp prevents air from travelling from the leading edge strut to the rib strut.

19. (New) The aerodynamic wing of Claim 9, wherein the valve mechanism comprises a mechanical shut off valve.

20. (New) The aerodynamic wing of Claim 9, wherein the valve mechanism comprises a one way check valve.

21. (New) The aerodynamic wing of Claim 9, wherein the air pathway connection is external.

22. (New) The aerodynamic wing of Claim 9, wherein the air pathway connection is internal.

23. (New) The aerodynamic wing of Claim 20, wherein the air pathway connection is internal.

24. (New) A method for using an aerodynamic wing comprising the steps of:

- a) providing an aerodynamic wing comprising an inflatable leading edge strut, at least one inflatable rib strut, an air pathway connection and a valve mechanism, wherein the air pathway connection allows air flow between the leading edge strut and a rib strut and wherein the valve mechanism has a first configuration that permits air flow from the leading edge strut to a rib strut and a second configuration that prevents air flow from the rib strut to the leading edge strut;
- b) supplying air to the leading edge strut so that air travels from the leading edge into the rib strut; and

c) restricting air flow between the rib strut to the leading edge strut when pressure in the rib strut is greater than pressure in the leading edge strut.

25. (New) The method of Claim 24, wherein the valve mechanism comprises a mechanical shut off valve and further comprising the step of manually operating the shut off valve after supplying air to the leading edge strut, wherein manually operating the shut off valve prevents air from traveling from the rib strut to the leading edge strut.

26. (New) The method of Claim 24, wherein the valve mechanism comprises a one way check valve which restricts air flow between the rib strut to the leading edge strut when pressure in the rib strut is greater than pressure in the leading edge strut.

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